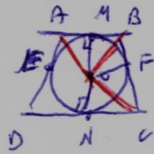


1.53
3

(1)



$\angle MON = 180^\circ$ e n'ol

$\angle MBO = \alpha = \angle OBF$ $\angle MOF = 180 - 2\alpha$

$\angle OCN = \beta = \angle OCF \rightarrow \angle NOF = 180 - 2\beta$
 $2\alpha + 2\beta = 180^\circ$

$\angle MON = \angle MOF + \angle FON = 180 - 2\alpha + 180 - 2\beta$
 $= 360 - (2\alpha + 2\beta) = 180^\circ$

(2)



give same length along same
 direction also the same point ← find point "

$AB + CD = 2AD$

$AD = \frac{a+b}{2}$ $CD = b$ $AB = a$

$DL = \frac{a-b}{2}$

AL perpendicular

$\triangle ADL: AD^2 - DL^2 = AL^2$

$AL^2 = \left(\frac{a+b}{2}\right)^2 - \left(\frac{a-b}{2}\right)^2 = ab \rightarrow AL = \sqrt{ab}$